

Soil Bioengineering References
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Author	Year	Title	Publication	
Barley, A.D.	1994	A combination of multidisciplinary techniques - vegetation and soil nailing	Discussion, Proceedings of the internat. Confr., University Museum, Oxford 09/29-30/94published in Vegetation and Slopes - Stabilisation, protection and ecology	Describes several case studies of combination projects.
Chatwin/Howe/Schwab/Swan son - Revised	1991	A Guide for Management of Landslide Prone Terrain in the Pacific Northwest	Land Management Handbook # 18 BC Ministry of Forests -	
U.S.D.A. Soil Conservation Service	1974	A guide for the design and layout of vegetative wave protection for earth dam embankments.	Technical Release No.56	
Brenner, R.P.	1973	A Hydrologic Model Study of a Forested and a Cut-over Slope	Bulletin Hydrologic Sciences, Vol.18, No.26, pp.125-143	
Anderson, Charles	1996	A Manual of Native Plant Communities for Urban Areas of the Pacific Northwest	Cascade Biomes, Inc. PO Box 22410, Seattle, WA 98122-0419 (206) 322-0528	
Natural Resources Conservation Service	1997	A Technical Glossary of Stream and River Stabilization, Restoration, and Bioengineering Terms	Natural Resources Conservation Service, Plant Materials Technical Note No.32	http://www.wsu.edu/pmc_nrsc/glossary/tn321ntr.htm
Gray D.H. and Maher, H.	1988	Admixture Stabilization of Sands with Random Fibers	Proceedings XII Intl. Conference on Soil Mechanics and Foundation Engineering, ICSMFE.	
Wright, Stoney	1989	Advances in plant material and revegetation technology in Alaska.	Reclamation, a global perspective : Proceedings of the conference; 1989 8/27-31; Calgary, AB. Rep. No. RRTAC 89-2 Vol. 1. Edmonton, AB: Alberta Land Conservation and Reclamation Council: 107-116 [14361]	
Fontaine, B.L. and Merritt, T.D.	1988	An Anchoring System for Fish Habitat Structures: Field Technique, Evaluation, and Application	Research Note PNW-RN481 Portland, OR: USDA USFS Pacific Northwest Research Station	
Lo, K.Y.	1972	An Approach to the Problem of Progressive Failure	Canadian Geotechnical Journal 9(4):407-429	
Madej, M.A., Kelsey, H. and Weaver, W.	1980	An evaluation of 1978 rehabilitation sites and erosion control techniques in Redwood National Park,	US National Park Service Arcata, CA Technical Rept. No.1, 113p.	
Goldsmith, W. and L. Bestmann	1992	An overview of bioengineering for shore protection.	Pro. Conf. XXIII, International Erosion Control Association. February 1992	
Reistenberg, M.M.	1994	Anchoring of thin colluvium on hillslopes by roots of sugar maple and white ash.	In Landslides in the Cincinnati Area, U.S. Geological Survey Bulletin No.7	
Northcutt, Ben	1994	Applications of soil bioengineering technology in the United States		
Bonham, A.J.	1980	Bank protection using emergent plants against boatwash in rivers and canals	Hydraulic Research, Wallingford Report #IT206	
FHWA	1995	Best Management Practices for Erosion and Sediment Control	FHWA-Eastern Federal Lands Highway Design, FHWA-FLP-94-005	Covers various erosion control techniques, their design and construction. Can be obtained from www.ntis.gov/
Grillmayer, Rick	2000	Best Management Practices for Soft Engineering of Shorelines	Nottawasaga Valley Conservation Authority (unpublished)	Good case study of 7y.o. cribwall with a example of rock retaining wall on opposite bank.
Hunter, Christopher	1991	Better Trout Habitat: A Guide to Stream Restoration and Management	Paperback 320 pages (November 1991) Island Press;ISBN:0933280777	
ELWd Systems	1999	Bibliography of Aquatic Habitat Enhancement Manuals and References	ELWd Systems Technical Note	A good source for further reading on habitat structures and in-stream structures.
U.S. Army Corps of Eng. Allen, H.H. and J.R.Leech		Bioengineering approaches to streambank stabilization - Do they work?	US Army Corps of Engineers, waterways experiment station, technical paper	Results of study of several treatments in streams all over the country, in response to flood events where fps ranged from 2.3 to 10.0 (max)
Scheuter, B.	1995	Bioengineering Construction Techniques at Problem Sites With and Without Inert Construction Materials	Poster 3, Proceedings of the internat. Confr., University Museum, Oxford 09/29-30/94published in Vegetation and Slopes - Stabilisation, protection and ecology, ISBN:0727720327	Slope stabilization methods and example projects, good costs section.

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Franti, Thomas G.	1996	Bioengineering for hillslope, streambank and lakeshore erosion control.	Coop ext., Inst. of Ag. and Nat. Resources, U of Nebraska-Lincoln	
Schiechtl, H.	1980	Bioengineering for land reclamation and conservation.	The Univ. of Alberta Press, Edmonton, Canada	
U.S. Army Corps of Eng. Allen, H.H. and J.R.Leech	1997	Bioengineering for Streambank Erosion Control	US Army Corps of Engineers, waterways experiment station, technical report EL-97-8	Guidelines for using bioengineering treatments in a prudent manner, design suggestions to ensure successful in-stream projects.
U.S. Army Corps of Eng. Webb, J.W., Allen, H.H. and O.S. Shirley	1993	Bioengineering methods to establish salt marsh on dredged material	Coastlines of the Gulf of Mexico, Amer. Soc. Of Civil Eng. Publication (paper presented at Coastal Zone 93 conference, published in "Coastlines")	Continuing research on stabilization alternatives for dredged material disposal areas using salt marsh wetland plants
Biotech d.o.o.	1995	Bioengineering of Steep Slopes	Poster 4, Proceedings of the internat. Confr., University Museum, Oxford 09/29-30/94published in Vegetation and Slopes - Stabilisation, protection and ecology, ISBN:0727720327	Using vegetation strips system to revegetate steep slopes in Slovenia.
U.S. Army Corps of Eng. Allen, H.H.	1992	Bioengineering technique of reservoir shoreline erosion control in Germany	Repair, Eval. Maint., Rehab. (REMR) Technical Note GT-SE-1.5	Documentation of a low-cost bioengineering technique for reservoir and shoreline erosion control in Germany.
International Erosion Control Association (sponsor)	1992	Bioengineering techniques for streambank and lakeshore erosion control	Pro. Conf. XXIII, International Erosion Control Association. February 1992	
Leiser, Andrew T.	1994	Biogeotechnology for slope protection and erosion control		
Buckley, G.P.	1989	Biological Habitat Reconstruction	Belhaven Press, London	
Fridl, W.F. and P.E. Demetrious	1982	Biotechnical bank stabilization	Public Works	
Gray, D.H. and R. Sotir	1996	Biotechnical & soil bioengineering slope stabilization: a practical guide for erosion control.	John Wiley and Sons.	
Allen, H.H.	1990	Biotechnical reservoir shoreline stabilization	US Army Corps of Engineers, Waterways Experiment Station, Vicksburg, MS, Information Exchange Bulletin Vol. 8 No.1.	
U.S. Army Corps of Engineers	1991	Biotechnical shoreline stabilization	Wildlife Resource Notes -Information Exchange Bulletin Vol.9 No.1 11/01/91 (prepared IAW AR 25-30)	Update on the continuing study of establishing vegetation on shorelines subject to varying water levels.
U.S. Army Corps of Engineers	1990	Biotechnical shoreline stabilization: update report	Wildlife Resource Notes -Information Exchange Bulletin Vol.8 No.1 03/31/90 (prepared IAW AR 310-2)	Continuing study of establishing vegetation on shorelines subject to varying water levels.
Gray, D.H. and A.T. Leiser	1982	Biotechnical slope protection and erosion control	Van Nostrand Reinhold, NewYork, NY	
Greenway, D. R.	1989	Biotechnical slope protection in Hong Kong	Proceeding of Conference XX, International Erosion Control Association. February, 1989. Vancouver, B.C. Canada	
Thomas, M.R., Kropp, A. and Lucas, A.	1989	Biotechnical stabilization of a debris flow scar	Proceedings, XX Intl. Erosion Control Assoc. Conf. Vancouver, BC pp 413-429	
Gray, D.H. and R. Sotir	1992	Biotechnical stabilization of a highway cut slope.	J. Geotechnical Eng. Amer. Assoc. Civil Eng. Vol 118, No. 9.2	
Gray, D.H. and R. Sotir	1992	Biotechnical stabilization of cut and fill slopes. Proceedings, ASCE-GT spec. conf. On slopes and embankments.	Berkeley, CA	
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Sotir, R.	1998	Brushing up on erosion control.	American City and County. Vol.113 No 2	
Keller/Bauer/Aldana	1995	Camino Rurales Con Impactos Minimos -		
Gullickson, D., Josiah S. and Flynn, P.	1999	Catching the Snow With Living Snow Fences	University of Minnesota Extension Service, St. Paul MN (612)625-6281	Forward, Chapters 1 and 2 are available online!
Coppin, N.J., Greenwood, J.R., R.Morgan, and D. Churcher	1994	CIRIA field evaluation and demonstration trials for bioengineering	Paper 8, Proceedings of the internat. Confr., University Museum, Oxford 09/29-30/94published in Vegetation and Slopes - Stabilisation, protection and ecology	Describes the site conditions, geotech. problems, types of vegetation and the monitoring regime for FED trials.
Hambidge, G. , et al.	1949	Climate and Man	USDA Agricultural Yearbook, Washington, DC	

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Crowder, Wayne and Pullman PMC		Collecting Willow, Poplar, and Red Osier Dogwood Hardwood Cuttings for Riparian Site Plantings	Natural Resources Conservation Service	Plant material guide, planting methods, propagation techniques.
Gray, D.H., Leiser A.T. and C.A.White	1980	Combined vegetative-structural slope stabilization	Amer. Assoc. of Civil Engineering, Vol. 50 No.1, pp.82-85	
Keller, E.A. and Brookes, A.	1984	Considerations of Meandering in Channelization Projects: Selected Observations and Judgements	Proceedings, Conference on Rivers, 1983, pp.384-397	
MacLaughlin, W.T. and R.L. Brown	1942	Controlling coastal sand dunes in the Pacific Northwest.	U.S.D.A. Washington D.C., Circular 660, 46 pages	
Ecabert, R.M.	1993	Coppicing: A Management Program for Trees on Hillsides that Block Views	Cincinnati Urban Landscape Tree Care Specialists, 2pp	
Gostelow, T.P. and Gibson, J.R.	1995	Corine Land Cover Data: Its Application to Regional Landslide Susceptibility Mapping in Basilicata, Tialy Using GIS	Paper 13, Proceedings of the internat. Confr., University Museum, Oxford 09/29-30/94published in Vegetation and Slopes - Stabilisation, protection and ecology, ISBN:0727720322	GIS mapping of land use and correlation to landslide occurrences.
Lake, D.W. and J.A. Jackson	1989	Cost effective biotechnical slope protection trials in New York, Amer. Soc. Agric.Eng. Pap. No. 892654	1989 International. ASCE meeting New Orleans, LA	
Burroughs, E.R. [Jr.] and B.R. Thomas	1977	Declining root strength in Douglas-fir after felling as a factor in slope stability.	Paper INT-190. Ogden, UT: USDA Forest Service, Intermountain Forest and Range Experiment Station. 27 p.	
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Carlson, J.R., Conway, g.I. Gibbs, J.L., and J.C. Hoag	1991	Design criteria for revegetation in riparian zones or the intermountain area.	In: Proceedings - Symposium on Ecology and Management of Riparian Shrub Communities. USDA Forest Service Gen.Tech. Rep. RM-65	
FHWA	1987	Design of Roadside Channels with Flexible Linings	FHWA-IP-87-7 (HEC-15),	Covers the design of vegetated and riprap lined ditches and small channels Can be obtained from www.fhwa.dot.gov/bridge/hydrpub.htm
Sotir, R.	1997	Designing soil bioengineering streambank protection for multiple objectives	Paper, Conference on Managmt. Of Landsc. Disturbed by Channel Incision (05/19-23/97 Oxford MS)	Case study describing how soil bioengineering systems can be used to meet aquatic and riparian habitat objectives.
Heath W. and B.McKinnon	1994	Earthwork monitoring: A project management system	Paper 4, Proceedings of the internat. Confr., University Museum, Oxford 09/29-30/94published in Vegetation and Slopes - Stabilisation, protection and ecology	Outlines an inexpensive management tool for large-scale earthworks using aerial photography, a computer database and software.
Wood, D.M., Meadows,A., Murray, J.M.H. and P.S. Meadows.	1994	Effect of Fungal and bacterial colonies on slope stability	Paper 1, Proceedings of the internat. Confr., University Museum, Oxford 09/29-30/94published in Vegetation and Slopes - Stabilisation, protection and ecology	Findings of slope stability experiments performed on water-saturated sand with and without the presence of fungus and bacteria. Both organisms were found to affect cohesive properties in the sand.
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Sheilds, F.D. and Gray, D.H.	1993	Effects of Woody Vegetation on the Structural Integrity of Sand Levees	Water Resources Bulletin, Vol 28, No.5, pp. 917-932	
US Army Corps of Engineers	1997	Engineering and Design – Handbook for the Preparation of Stormwater Pollution Prevention Plans for Construction Activities	US Army Corps of Engineers, publication No. EP-1110-1-16	Covers various Best Management Practices one can use to control erosion and streambank stabilization. Advantages, disadvantages, and design criteria is covered for each Best Management Practice. Can be viewed and downloaded from 144.3.144.209/corpusdata/usace/inet/usace- docs/eng-pamphlets/ep1110-1-16/toc.htm

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Henderson, J.E.	1986	Environmental designs for streambank protection projects.	Water Resources bulletin 22(4): 549-558	
Hynson, J.R. P.R. Adams, J.O. Elmer and T. Dewan	1983	Environmental features for levee projects.	U.S. Army Corps of Eng. Wash. D.C. Tech. Rept. E-83	
Hall, Pheobia	1998	Environmentally Friendly Alternatives to Concrete Drainage Ditches	University of South Alabama (unpublished study)	Basic study of literature, makes case for soil bioengineering to be part of solution (with greenways and wetlands)
Florineth, F.	1994	Erosion control above the timberline in South Tyrol, Italy	Keynote paper, Proceedings of the internat. Confr., University Museum, Oxford 09/29-30/94published in Vegetation and Slopes - Stabilisation, protection and ecology	Case study of extensive revegetation in geologically unstable alpine regions.
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Kay B.L. and R. Mearns	1973	Erosion control treatments on fine sands.	Agronomy Program Report 58, 8 pages.	
Blunt, S.M. and T.C. Dorken	1994	Erosion of highway slopes in upland Wales: problems and solutions	Paper 5, Proceedings of the internat. Confr., University Museum, Oxford 09/29-30/94published in Vegetation and Slopes - Stabilisation, protection and ecology	Extensive case study of erosion processes in upland Wales, including a literature review, site surveys, and management review.
Bayfield, N.G. , Barker, G.H. & Yah, K.C.	1992	Erosion of Road Cuttings and the Use of Bioengineering to Improve Slope Stability	Singapore Journal of Tropical Geography, vol.13 pp.75-89	
Nolan, K.M., harden, D., and Janda, R.J.	1976	Erosional landform map of the Redwood Creek Basin, Humboldt County, CA	USGS Water Resources Investigation Open File Map 76-42	
Larson, Marit and Derek Booth		Evaluation of Large Wood in Urban Stream Restoration Projects	Center for Urban Water Resources Management http://depts.washington.edu/cssuw/Research/Projects/ulwd.html	Evaluation of the effectiveness of in-channel wood structures in rehabilitation projects on urban and sub-urban streams in degraded watersheds
Flessner, Theresa R.	1997	Factors Affecting Selection, Acquisition and Use of Plant Materials in a Soil Bioengineering Project	Natural Resources Conservation Service, Plant Materials Technical Note No. 18 Portland, OR	Information about plant materials for Soil Bioengineering, good reference section.
Hathaway R.L.	1973	Factors affecting the soil binding capacity of the root systems of some Populus and Salix clones.	M.Sc. Thesis in Botany, Massey University, Palmerston North N.Z.	
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Sotir, R. and Gray, D.	1989	Fill Slope Repair Using Soil Bioengineering Systems	Public Works Magazine 120(13):37-45	
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BC Ministry of forests	1995	Forest Road Engineering guidebook		
Sutton, R.F.	1969	Form and Development of Conifer Root Systems	Technical Bulletin No. 7, Commonwealth Agricultural Bureau, Oxford	
Krukeberg, Arthur	1993	Gardening with Native Plants of the Pacific Northwest	University of Washington Press. Seattle, WA ISBN 0-295-96853-2	
Johnson, A.W. and J.M. Stypula, eds.	1993	Guidelines for Bank Stabilization Projects in the Riverine Environments of King County	King County Water & Land Resources, 700 5th Ave. Ste. 2200, Seattle, WA 98104 (206) 296-6519; 68p. \$3.50 Illstr. 22 Refs. In Print	The Guidelines document is a practical guide for all steps of a bank stabilization project
US Army Corps of Engineers	1990	Guidelines for vegetative erosion control on wave-impacted coastal dredged material sites	US Army Corps of Engineers, technical report D-90-13	Evaluation of vegetative stabilization alternatives for dredged material disposal areas using salt marsh wetland plants
Goldsmith, W., Franklin, C. and Alminana, J.	1994	Healing public streambanks	Erosion Control, March/April 1994	

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Washington Department of Transportation	2000	Highway Runoff Manual	Washington Department of Transportation	BMP's advantages, disadvantages, and design criteria for each. Can be downloaded from www.wsdot.wa.gov/fasc/EngineeringPublications
U.S. Department of Transportation	1975	Highways in the river environment - hydraulic and environmental design considerations.	Training and Design Manual	
Reid, G.	1969	How to hold up a bank.	A.S. Barnes and Co. New York, NY	
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Oregon Department of Transportation	1999	Hydraulics Manual - Volume 2 - Erosion and Sediment Control Manual	Oregon Department of Transportation	BMP's advantages, disadvantages, and design criteria for each. Available by calling 503/986-3720
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Yoon, P.K.	1995	Important Biological Considerations in Use of Vetiver Grass Hedgerows (VGHR) for Slope Protection and Stabilisation	Paper 14, Proceedings of the internat. Confr., University Museum, Oxford 09/29-30/94 published in Vegetation and Slopes - Stabilisation, protection and ecology, ISBN:0727720321	VGHR use, comments on producing quality planting materials, establishment and maintenance.
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Goldsmith, W., Franklin, C. and Alminana, J.	1993	Lakeside bioengineering	Land and Water, 37. March/April 1993	
Harker, D., Evans, S., Evans, M., Harker, K.	1993	Landscape Restoration Handbook	Lewis Publishers United States Golf Association	Describes the dominant ecological communities of continental US, with principles and guidelines for "naturalization" programs.
Bishop, D.M. and Stevens, M.E.	1964	Landslips on logged areas in Southeast Alaska.	USDA Forest Service Research Paper NOR-1,18	
U.S. Army Corps of Engineers Keown, M.P.	1977	Literature survey and preliminary evaluation of streambank protection methods	US Army Corps of Engineers, waterways experiment station, technical report H-77-9	*****Available on loan, U.S. Army Vicksburg Research Library Gateway (WebCat) http://134.164.46.9/uhbin/cgisirsi/5AkRI6HB6h/0/49
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Natural Resources Conservation Service	1995	Native plants recommended for wetland/riparian plantings in the Pacific Northwest	Natural Resources Conservation Service, Plant Materials Technical Note No. 28	Available online, click here.
Darris, D.C. and S.M. Lambert	1993	Native Willow Varieties for the Pacific Northwest	Corvallis Pant Materials Center. USDA Soil Conservation Service	
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Franklin, Jerry and Dyrness, C.T.	1988	Natural Vegetation of Oregon and Washington	OSU Press	A generalized account of the major vegetation types within OR and WA. Provide bibliographic reference to specific information.
Maia, Eric		Northwest Native Plants: Identification & Propagation for Revegetation and Restoration Projects. with supplemental sections Noxious Weeds and Aquatic Plants	King County Water & Land Resources, 700 5th Ave. Ste. 2200, Seattle, WA 98104 (206) 296-6519; 68p. \$3.50 Illstr. 22 Refs. In Print	
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Grime	1979	Plant Strategies and Vegetation Process	Wiley, Chichester	
Pojar, J. and MacKinnon, A.	1994	Plants of the Pacific Northwest	Lone Pine Publishing, Redmond, WA. ISBN 1-55105-040-4	Must-have guide to Pacific Northwest Native Plants
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Crowder, W. and Darris, D.	1999	Producing Pacific Northwest Native Trees and Shrubs in Hardwood Cutting Blocks or Stooling Beds	Natural Resources Conservation Service, Plant Materials Technical Note No. 38 Pullman, WA	Creating your own cutting source for restoration projects.
Sotir, R.	1991	Project evaluation of fill slope repair using soil bioengineering systems: NC 126, Burke-Mcdowel counties, NC	Prepared by Geotechnical Unit, NCDOT and Soil Bioengineering Corporation, Marietta, GA	

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Burroughs, E. and J. King	1989	Reduction of Soil Erosion on Forest Roads	USDA – Forest Service Intermountain Research Station, INT-264	Covers various techniques to reduce erosion on road cuts and road surfaces
Bayfield, N.G. and McGowan, G.M.	1990	Re-establishment of Mountain and Moorland Vegetation	Laboratory screening trails 1988-9. Institute of Terrestrial Ecology, Banchory.	
Brown, N.	1994	Rehabilitation of natural forests in the humid tropics	Keynote, Proceedings of the internet. Confr., University Museum, Oxford 09/29-30/94published in Vegetation and Slopes - Stabilisation, protection and ecology	Addresses the acute problem of land restoration and erosion control, and examines the potential of the natural vegetation for providing solutions.
U.S. Army Corps of Engineers	1986	Reservoir shoreline revegetation guidelines		Feasibility study of establishing vegetation on shorelines subject to varying water levels.
Lee, C.R. et. Al.	1985	Restoration of problem soil materials at Corps of Engineers construction sites	Environmental Laboratory, US Army Corps of Engineers Waterways Experimentation Station. Environmental Impact Research Program Instruction Report EL-85-2. Vicksburg, MI	
Washington Dept. of Fish and Wildlife		Restoring the Watershed : A citizen's Guide to Riparian Restoration in Western Washington	Washington Dept. of Fish and Wildlife, Habitat Division (360) 902-2534	Native vegetation of Western Washington for use in restoration projects.
Leister A.T., J.J. Nussbaum, Kay B., Paul J. and W. Thornhill	1974	Revegetation of disturbed soils in the Tahoe Basin.	Dept. Environ., Horticult., Agron., and Range Sci. U of Calif., Davis Final Rept. 71pages.	
Kay B.L.	1973	Revegetation of mountain sites above 3,000 ft. in California	Agronomy Program Report 53, 6 pages.	
Clark, J., Foy, T., and Hellin, J.	1995	Review of the Natural Resources Institute's Bio-Engineering Research in the Caribbean.	Paper 12, Proceedings of the internet. Confr., University Museum, Oxford 09/29-30/94published in Vegetation and Slopes - Stabilisation, protection and ecology, ISBN:0727720320	
Washington Department of Transportation	1999	Roadside Manual, - Chapter 700	Washington Department of Transportation	Covers various erosion control techniques and practices. Can be downloaded from www.wsdot.wa.gov/fasc/EngineeringPublications
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